

Element Performance Inspection (EPI) Data Collection Tool
5.1.7 Special Navigation Areas of Operation (OP)
Revision#:3 Revision Date:09/15/2009

ELEMENT SUMMARY INFORMATION

Scope of Element:

Purpose (operator's responsibility): To ensure continuous navigational reliability in accordance with the operator's Special Navigation Areas of Operation (special use airspace) authorizations.

Objective (FAA oversight responsibility): To determine:

- The effectiveness of the operator's procedures in meeting the desired output of the process,
- If the operator follows its procedures, controls, process measurements, and interfaces, and
- If there were any changes in the personnel identified by the operator as having responsibility and/or authority, for the Special Navigation Areas of Operation process.

Specific Instructions:

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Related EPIs:

Intentionally left blank

SUPPLEMENTAL INFORMATION

Regulatory Requirements:

B.029, Operations Specifications
B.036, Operations Specifications
B.038, Operations Specifications
B.039, Operations Specifications
B.040, Operations Specifications
B.050, Operations Specifications
91.703, Operations of civil aircraft of U.S. registry outside of the United States.
91.705, Operations within airspace designated as Minimum Navigation Performance Specification Airspace.
119.43, Certificate holder's duty to maintain operations specifications.
119.49, Contents of operations specifications
121.135, Manual contents
121.355, Equipment for operations on which specialized means of navigation are used.
121.445, Pilot in command airport qualification: Special areas and airports.
121 App..G, SRR 121 Appendixes

Related CFRs & FAA Policy/Guidance:

Related CFRs:

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FAA Policy/Guidance:

FAA Order 8900.1, Volume 4, Chapter 1, Section 5

FAA Order 8400.33, paragraph 9 & 10, Procedures for Obtaining Authorization for Required Navigation Performance 4 (RNP-4) Oceanic and Remote Area Operations

EPI SECTION 1 - PERFORMANCE OBSERVABLES

Objective:

The tasks and questions in this section of the EPI are designed to assist in determining if the operator follows its written procedures and controls and meets the established performance measures of the process. The initial series of questions address the output(s) of the process and the last several questions address whether or not various aspects of the process were followed.

Tasks

	The inspector shall accomplish the following tasks:
1	Review the information listed in the Supplemental Information section of this DCT.
2	Review policies, procedures, instructions, and information for the processes associated with this element.
3	Review the most recently accomplished Safety Attribute Inspection (SAI) for this element.
4	Observe the performance of this element to gain an understanding of the procedures, instructions, and information.
5	Discuss this element with the personnel who perform the duties and responsibilities required by the process.

Questions

1.1	<p>Were flight crewmembers who were assigned to operate within Special Navigation Areas of Operation properly qualified?</p> <p>Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic</p> <p><i>Related Performance JTIs:</i></p> <ol style="list-style-type: none"> 1. Check at the aircraft cockpit by interviewing the pilot in command to ensure he/she is familiar with the procedures associated with malfunction of navigation, approach, or communication equipment occurring in flight in accordance with the Certificate Holder's design. (JTI ID: 1) <i>Sources:</i> 91.187(a) 2. Check at the aircraft cockpit by interviewing a flight crewmember to ensure he/she is familiar with the procedures associated with flying over the high seas in compliance with annex 2 (Rules of the Air) to the Convention on International Civil Aviation in accordance with the Certificate Holder's design. (JTI ID: 4) <i>Sources:</i> 91.703(a)(1) 3. Check at the aircraft cockpit by interviewing a flight crewmember to ensure he/she is familiar with the procedures associated with flying over the high seas in compliance with 14CFR Part 91.117(c), 91.127, 91.129 and 91.131 in accordance with the Certificate Holder's design. (JTI ID: 5) <i>Sources:</i> 91.703(a)(1) 4. Check at the aircraft cockpit by interviewing a flight crewmember to ensure he/she is familiar with the regulations relating to the flight and 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
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	<p>maneuver of aircraft while in a foreign country in accordance with the Certificate Holder's design. (JTI ID: 9)</p> <p>Sources: 91.703(a)(2)</p>	
5.	<p>Check at the aircraft cockpit by interviewing a flight crewmember to ensure he/she is familiar with the procedures when within Minimum Navigation Performance Specifications (MNPS) airspace the operation is conducted in compliance with 14CFR Part 91.705 in accordance with the Certificate Holder's design. (JTI ID: 10)</p> <p>Sources: 91.703(a)(4)</p>	
6.	<p>Check at the aircraft cockpit by interviewing a flight crewmember to ensure he/she is familiar with the procedures when within Reduced Vertical Separation Minimum (RVSM) airspace the operation is conducted in compliance with 14CFR Part 91.706 in accordance with the Certificate Holder's design. (JTI ID: 11)</p> <p>Sources: 91.703(a)(4)</p>	
7.	<p>Check at the aircraft cockpit by interviewing a flight crewmember to ensure he/she is familiar with the procedures when within Minimum Navigation Performance Specifications (MNPS) airspace the operation is conducted in compliance with appendix C of 14CFR Part 91 in accordance with the Certificate Holder's design. (JTI ID: 12)</p> <p>Sources: 91.705(a)(1)</p>	
8.	<p>Check at the aircraft cockpit by interviewing a flight crewmember to ensure that he/she understands that they may not operate a civil aircraft of U.S. registry in airspace designated as Minimum Navigation Performance Specifications airspace unless the aircraft is authorized by the Administrator to perform such operation in accordance with the Certificate Holder's design. (JTI ID: 13)</p> <p>Sources: 91.705(a)(2)</p>	
9.	<p>Check at the aircraft cockpit by interviewing a flight crewmember to ensure they are knowledgeable of the en route flight, navigation and communication procedures, including procedures for the dispatch or release or continuance of a flight if any item of equipment required for the particular type of operation becomes inoperative or unserviceable in accordance with the Certificate Holder's design. (JTI ID: 20)</p> <p>Sources: 121.135(b)(5)</p>	
10.	<p>Check at the aircraft cockpit of an air carrier conducting flag and/or domestic operations by interviewing a pilot to ensure he/she is knowledgeable of the appropriate information for each route and airport qualification procedure in accordance with the Certificate Holder's design. (JTI ID: 29)</p> <p>Sources: 121.135(b)(21)</p>	
11.	<p>Check at the air carrier specified location by reviewing training records to ensure that they have not used and no person has served as pilot in command between terminals over a route or area that requires a special type of navigation qualification unless, within the preceding 12 calendar months, that person has demonstrated qualification on the applicable navigation system in a manner acceptable to the Administrator, by one of the following methods in accordance with the Certificate Holder's design : (1) By flying over a route or area as pilot in command using the applicable special type of navigation system. (2) By flying over a route or area as pilot in command under the supervision of a check airman using the special type of navigation system. (3) By completing the training program requirements of 14CFR Part 121 Appendix G. (JTI ID: 35)</p>	

	<p><i>Sources:</i> 121.445(d)(1); 121.445(d)(2); 121.445(d)(3)</p> <p>12. Check at the air carrier specified location by reviewing training records to ensure that they have not used and no person has served as pilot in command between terminals that require qualification unless, within the preceding 12 calendar months, that person has demonstrated qualification on the applicable navigation system in a manner acceptable to the Administrator, by one of the following methods in accordance with the Certificate Holder's design: (1) By flying over a route or area as pilot in command using the applicable special type of navigation system. (2) By flying over a route or area as pilot in command under the supervision of a check airman using the special type of navigation system. (3) By completing the training program requirements of 14CFR Part 121 Appendix G. (JTI ID: 37)</p> <p><i>Sources:</i> 121.445(d)(1); 121.445(d)(2); 121.445(d)(3)</p> <p>13. Check at the air carrier specified location by reviewing training records to ensure that they have not used and no person has served as pilot in command over a route that requires a special type of navigation qualification unless, within the preceding 12 calendar months, that person has demonstrated qualification on the applicable navigation system in a manner acceptable to the Administrator, by one of the following methods in accordance with the Certificate Holder's design: (1) By flying over a route or area as pilot in command using the applicable special type of navigation system. (2) By flying over a route or area as pilot in command under the supervision of a check airman using the special type of navigation system. (3) By completing the training program requirements of 14CFR Part 121 Appendix G. (JTI ID: 39)</p> <p><i>Sources:</i> 121.445(d)(1); 121.445(d)(2); 121.445(d)(3)</p> <p>14. Check at the aircraft cockpit by interviewing the pilot in command to ensure he/she is knowledgeable of the air carrier manual system procedures that if any instrument or item of equipment required under 14CFR Part 121 for the particular operation becomes inoperative en route, the pilot in command shall comply with those approved procedures for such an occurrence in accordance with the Certificate Holder's design. (JTI ID: 41)</p> <p><i>Sources:</i> 121.627(b)</p>	
1.2	<p>Were dispatchers who were assigned duties for Special Navigation Areas of Operation properly qualified?</p> <p>Updated: Rev # 2 on 05/30/2008 Kind Of Question: Flag, Domestic</p> <p><i>Related Performance JTIs:</i></p> <p>1. Check at the dispatch center by interviewing an aircraft dispatcher, if any item of equipment required for the particular type of operation becomes inoperative or unserviceable to ensure they are knowledgeable of flight dispatch procedures in accordance with the Certificate Holder's design. (JTI ID: 23)</p> <p><i>Sources:</i> 121.135(b)(5)</p> <p>2. Check at the dispatch center of an air carrier conducting flag and/or domestic operations by interviewing a dispatcher to ensure he/she is knowledgeable of the appropriate information for each airport and route qualification in accordance with the Certificate Holder's design. (JTI ID: 31)</p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No, Explain</p> <p><input type="checkbox"/> Not Applicable</p> <p><input type="checkbox"/> Not Observable</p>

	<p><i>Sources:</i> 121.135(b)(21)</p> <p>3. Check at the dispatch center by interviewing a dispatcher to ensure that he/she understands the special navigation requirements that are applicable to the routes and areas being served as authorized in OPSS paragraph B050 (Authorized Areas Of En Route Operation, Limitations, and Procedures) in accordance with the Certificate Holder's design. (JTI ID: 72)</p> <p><i>Sources:</i> B.050 Authorized En Route Operations; Limitations</p> <p>4. Check at the dispatch center by interviewing a dispatcher to ensure that he/she understands the special navigation requirements that are applicable to North Polar Operations in OPSS paragraph B055 in accordance with the Certificate Holder's design. (JTI ID: 73)</p> <p><i>Sources:</i> B.055 North Polar Operations</p> <p>5. Check at the dispatch center by interviewing a dispatcher to ensure that he/she understands the requirements for special areas of navigation operations not specifically referenced by OPSS, e.g. Russian Metric Altitudes, to ensure those procedures meet the requirements of FAA Order 8900.1, Volume 4, Chapter 1, Section 5 in accordance with the Certificate Holder's design. (JTI ID: 74)</p> <p><i>Sources:</i> FAA Order 8900.1, Volume 4, Chapter 1, Section 5, Paragraph 4-103</p>	
1.3	<p>Were flight followers that were assigned duties for Special Navigation Areas of Operation properly qualified?</p> <p>Updated: Rev # 3 on 09/15/2009 Kind Of Question: Supplemental</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable <input type="checkbox"/> Not Observable
1.4	<p>Did aircraft used in Special Navigation Areas of Operation meet the requirements for those operations?</p> <p>Updated: Rev # 2 on 05/30/2008 Kind Of Question: Flag, Supplemental, Domestic</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
1.5	<p>Were required flight crewmember actions accomplished before and after entering Special Navigation Areas of Operation?</p> <p>Updated: Rev # 2 on 05/30/2008 Kind Of Question: Flag, Supplemental, Domestic</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
1.6	<p>Did the operator follow policies, procedures, instructions, and information for this element?</p> <p>Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic</p> <p><i>Related Performance JTIs:</i></p> <p>1. Check at the air carrier specified location that conducts domestic operations to determine that they have obtained operations specifications for the routes and areas of operation in accordance with the Certificate Holder's design. (JTI ID: 15)</p> <p><i>Sources:</i> 119.49(a)(6)</p> <p>2. Check at the air carrier specified location that conducts flag operations to determine that they have obtained operations specifications for the routes and areas of operation in accordance with the Certificate</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable

	Holder's design. (JTI ID: 17) <i>Sources: 119.49(a)(6)</i> 3. Check at the air carrier specified location that conducts supplemental operations to determine that they have obtained operations specifications for the routes and areas of operation in accordance with the Certificate Holder's design. (JTI ID: 19) <i>Sources: 119.49(b)(6)</i>	
1.7	Did the operator follow controls for this element? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
1.8	Did the records for this element comply with the instructions? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
1.9	Were the process measurements for this element: <ul style="list-style-type: none"> • Effective in identifying actual or potential problems, and • Did the operator identify and take corrective action for the identified problems? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
1.10	Were the observed interfaces identified and documented by the operator? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
1.11	Were the observed interfaces, identified and documented by the operator, adequate to ensure that the intended results were achieved? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable

EPI SECTION 1 - PERFORMANCE OBSERVABLES Drop-Down Menu	
1.	Personnel.
2.	Tools and Equipment.
3.	Technical Data.
4.	Policies, procedures, instructions, or information.
5.	Materials.
6.	Facilities.
7.	Controls.
8.	Process Measures.
9.	Interfaces.
10.	Desired Outcome.
11.	Other.

EPI SECTION 2 - MANAGEMENT RESPONSIBILITY & AUTHORITY OBSERVABLES

Objective:

Answers to questions in this section address the responsibility and authority of the people who manage this process. They will help determine if there is a qualified and knowledgeable person who is:

- Is responsible for the process
- Is answerable for the quality of the process
- Has the authority to establish and modify the process.

Note: The person with the authority may or may not be the person with the responsibility.

Tasks

	The inspector shall accomplish the following tasks:
1	Identify the person who has overall responsibility for the processes associated with this element.
2	Identify the person who has overall authority for the processes associated with this element.
	Note: If there have been no major changes in key personnel or the program since the last SAI or EPI was accomplished, then only answer questions 1 and 2 below, and select "No Change" (N/C) for the remaining questions. If changes have occurred that affect the responsibility or authority attributes for this element, then accomplish all tasks and answer all questions.
3	Review the duties and responsibilities for the person(s) who manage the processes associated with this element.
4	Review the appropriate organizational chart.
5	Discuss the processes associated with this element with the management personnel identified in tasks 1 and 2.
6	Review the qualifications and work experience of the management personnel identified in tasks 1 & 2.

Questions

2.1	Is the identified person who is responsible for the quality of the processes associated with this element actively filling that position? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
2.2	Is the identified person who has authority to establish and modify the operator's policies, procedures, instructions and information for the processes associated with this element actively filling that position? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
2.3	Does the responsible person know that he/she has responsibility for the processes associated with this element? Updated: Rev # 3 on 09/15/2009	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable

	Kind Of Question: Flag, Supplemental, Domestic	
2.4	Does the person with authority know that he/she has authority for the processes associated with this element? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
2.5	Does the person with responsibility for the processes associated with this element meet the qualification and work experience standards? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
2.6	Does the person with authority to establish and modify the processes associated with this element meet the qualification and work experience standards? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
2.7	Does the person with responsibility understand the controls, process measurements, and interfaces associated with this element? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
2.8	Does the person with authority understand the controls, process measurements, and interfaces associated with this element? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
2.9	Does the person with responsibility know who has authority to establish and modify the processes associated with this element? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable
2.10	Does the person with authority know who has the responsibility for the processes associated with this element? Updated: Rev # 3 on 09/15/2009 Kind Of Question: Flag, Supplemental, Domestic	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Observable

EPI SECTION 2 - MANAGEMENT RESPONSIBILITY & AUTHORITY OBSERVABLES Drop-Down Menu	
1.	Assignment of responsibility.
2.	Assignment of authority.
3.	Does not understand policies, procedures, instructions, or information.
4.	Does not understand controls.
5.	Does not understand process measurements.
6.	Does not understand interfaces.
7.	Span of control.
8.	Position vacant.
9.	Other.

